Practice: 512 - Forage and Biomass Planting Scenario: #1 - Native Perennial Grass (1 sp)

Scenario Description:

Establish or reseed adapted perennial native grasses to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of native grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding, and spreading.

Before Situation:

Poorly managed/degraded pasture land or cropland being converted to pasture and/or hay.

After Situation:

Suitable species are established to improve forage quality and quantity and reduce soil erosion on cropland ,hayland, pasture, and/or biomass production.

Scenario Feature Measure: Acres of Forgage and Biomass Planting

Scenario Unit: Acre

Scenario Typical Size: 30

Scenario Cost: \$7,668.42 Scenario Cost/Unit: \$255.61

Cost Details (by category	/):			Price		
Component Name	ID	Component Description	Unit	(\$/unit)	Quantity	Cost
Equipment/Installation						
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.67	30	\$170.10
Seeding Operation, No Till/Grass Drill		No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$19.75	30	\$592.50
Fertilizer, ground application, dry bulk		Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.28	30	\$188.40
Lime application		Lime application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$9.39	30	\$281.70
Labor						
General Labor		Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$18.46	8	\$147.68
Materials			•		•	•
Lime, ENM	75	Fertilizer: Limestone Spread on field.	Ton	\$43.54	60	\$2,612.40
Test, Soil Test, Standard	299	Includes materials, shiping, labor, and equipment costs.	Each	\$9.36	1	\$9.36
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.83	30	\$474.90
One Species, Warm Season, Native Perennial Grass		Native, warm season perennial grass. Includes material and shipping only.	Acre	\$65.98	30	\$1,979.40
Potassium, K2O		K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.30	1500	\$450.00
Phosphorus, P2O5		Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.34	1500	\$510.00
Mobilization						
Mobilization, medium equipment		Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$251.98	1	\$251.98

Practice: 512 - Forage and Biomass Planting
Scenario: #3 - Native Perennial 2 or more species

Scenario Description:

Establish or reseed with 2 or more adapted perennial native warm season grasses to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of perennial native warm season grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding ,and spreading.

Before Situation:

Existing stand of perennial grasses or monoculture or no grasses present. Resource concerns may include undesireable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Situation:

Suitable NWSG species are established to improve forage quality and quantity and reduce soil erosion on cropland, hayland, pasture and/or biomass production.

Scenario Feature Measure: Acres of Forgage and Biomass Planting

Scenario Unit: Acre

Scenario Typical Size: 30

Scenario Cost: \$11,976.72 Scenario Cost/Unit: \$399.22

Cost Details (by category): Price **Component Name Quantity Cost Component Description** Unit (\$/unit) 341 30 Equipment/Installation \$281.70 \$9.39 30 Lime application 953 Lime application performed by ground equipment. Acre Includes equipment, power unit and labor costs. 960 No Till drill or grass drill for seeding. Includes equipment, 30 \$592.50 Seeding Operation, No Acre \$19.75 power unit and labor costs. Till/Grass Drill Chemical, ground application 948 Chemical application performed by ground equipment. \$5.67 30 \$170.10 Acre Includes equipment, power unit and labor costs. Tillage, Light 945 Includes light disking (tandem) or field cultivator. Includes Acre \$10.31 30 \$309.30 equipment, power unit and labor costs. Labor General Labor \$18.46 \$147.68 231 Labor performed using basic tools such as power tool, Hour shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. Materials Three plus Species Mix, Warm 2327 Native, warm season perennial grass. Includes material \$205.56 30 \$6,166.80 Acre Season, Native Perennial and shipping only. \$510.00 Phosphorus, P2O5 73 Price per pound of P2O5 supplied by Superphosphate. Pound \$0.34 1500 Price is not per pound of total product applied, no conversion is needed. Potassium, K2O 74 K2O supplied by Muriate Of Potash. Price is not per pound Pound \$0.30 1500 \$450.00 of total product applied, no conversion is needed. Lime, ENM 75 Fertilizer: Limestone Spread on field. Ton \$43.54 60 \$2.612.40 Test, Soil Test, Standard 299 Includes materials, shiping, labor, and equipment costs. Each \$9.36 1 \$9.36 Herbicide, Glyphosate 334 A broad-spectrum, non-selective systemic herbicide. Refer \$15.83 30 \$474.90 Acre to WIN-PST for product names and active ingredients. Includes materials and shipping only. Mobilization 1139 Equipment with 70-150 HP or typical weights between \$251.98 \$251.98 Mobilization, medium Each 1 equipment 14,000 and 30,000 pounds.

Scenario: #4 - Native Perennial 2 or more species with Low Input

Scenario Description:

Establish or reseed with two or more adapted perennial native warm season grasses to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of perennial native warm season grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertility and pH are not needed. Seed, equipment and labor for seed bed prep, tillage, seeding ,and spreading are included.

Before Situation:

Existing stand of perennial grasses or monoculture or no grasses present. Resource concerns may include undesireable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Situation

Suitable NWSG species are established to improve forage quality and quantity and reduce soil erosion on cropland, hayland, pasture and/or biomass production.

Scenario Feature Measure: Acres of Forgage and Biomass Planting

Scenario Unit: Acre

Scenario Typical Size: 30

Scenario Cost: \$8,122.62 Scenario Cost/Unit: \$270.75

Cost Details (by category): Price **Component Name Component Description** Unit **Quantity Cost** (\$/unit) 341 30 Equipment/Installation \$5.67 30 \$170.10 Chemical, ground application 948 Chemical application performed by ground equipment. Acre Includes equipment, power unit and labor costs. Seeding Operation, No 960 No Till drill or grass drill for seeding. Includes equipment, \$19.75 30 \$592.50 Acre Till/Grass Drill power unit and labor costs. Tillage, Light 945 Includes light disking (tandem) or field cultivator. Includes 30 \$309.30 Acre \$10.31 equipment, power unit and labor costs. Labor \$18.46 \$147.68 General Labor 231 Labor performed using basic tools such as power tool, Hour shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. Materials Herbicide, Glyphosate 334 A broad-spectrum, non-selective systemic herbicide. Refer Acre \$15.83 30 \$474.90 to WIN-PST for product names and active ingredients. Includes materials and shipping only. Test, Soil Test, Standard 299 Includes materials, shiping, labor, and equipment costs. Each \$9.36 1 \$9.36 \$205.56 Three plus Species Mix, Warm 2327 Native, warm season perennial grass. Includes material Acre 30 \$6,166.80 Season, Native Perennial and shipping only. Mobilization 1139 Equipment with 70-150 HP or typical weights between \$251.98 \$251.98 Mobilization, medium Each 1 14,000 and 30,000 pounds. equipment

Practice: 512 - Forage and Biomass Planting Scenario: #5 - Introduced Cool Season Grasses

Scenario Description:

Establish or reseed adapted perennial introduced cool season grasses and legumes to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of perennial introduced cool season grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding, and spreading.

Before Situation:

Poor or nonexistent stand of grass species. Resource concerns may include undesireable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Situation:

Suitable species are established to improve forage quality and quantity and reduce soil erosion on cropland ,hayland, pasture, and/or biomass production.

Scenario Feature Measure: Acres of Forgage and Biomass Planting

Scenario Unit: Acre

Scenario Typical Size: 30

Scenario Cost: \$7,226.22 Scenario Cost/Unit: \$240.87

Cost Details (by category): Price **Quantity Cost Component Name Component Description** Unit (\$/unit) Equipment/Installation Tillage, Light 945 Includes light disking (tandem) or field cultivator. Includes Acre \$10.31 30 \$309.30 equipment, power unit and labor costs. Seeding Operation, No 960 No Till drill or grass drill for seeding. Includes equipment, \$19.75 30 \$592.50 Acre power unit and labor costs. Till/Grass Drill Fertilizer, ground application, 950 Dry bulk fertilizer application performed by ground Acre \$6.28 30 \$188.40 equipment. Includes equipment, power unit and labor dry bulk costs. Acre \$5.67 30 \$170.10 Chemical, ground application 948 Chemical application performed by ground equipment. Includes equipment, power unit and labor costs. Labor General Labor 231 Labor performed using basic tools such as power tool, Hour \$18.46 \$147.68 shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. Materials \$912.00 Nitrogen (N), Ammonium 69 Price per pound of N supplied by Ammonium Nitrate. Price Pound \$0.76 1200 Nitrate is not per pound of total product applied, no conversion is needed. Test, Soil Test, Standard 299 Includes materials, shiping, labor, and equipment costs. Each \$9.36 \$9.36 Lime, ENM 75 Fertilizer: Limestone Spread on field. Ton \$43.54 60 \$2,612.40 74 K2O supplied by Muriate Of Potash. Price is not per pound 1500 \$450.00 Potassium, K2O Pound \$0.30 of total product applied, no conversion is needed. Phosphorus, P2O5 73 Price per pound of P2O5 supplied by Superphosphate. Pound \$0.34 1500 \$510.00 Price is not per pound of total product applied, no conversion is needed. \$19.92 30 \$597.60 Four Species Mix, Cool Season, 2319 Cool season, introduced grass and legume mix. Includes Acre Introduced Perennial (2 material and shipping only. grasses, 2 legumes)

Materials

matemans						
Herbicide, Glyphosate		A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.83	30	\$474.90
Mobilization						
Mobilization, medium	1139	Equipment with 70-150 HP or typical weights between	Each	\$251.98	1	\$251.98
equipment		14,000 and 30,000 pounds.				

Scenario: #6 - Introduced Cool Season Grasses with Legumes with Low Input

Scenario Description:

Establish or reseed adapted perennial introduced cool season grasses and legumes to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of perennial introduced cool season grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertility and pH are not needed. Seed, equipment and labor for seed bed prep, tillage, seeding ,and spreading are included.

Before Situation:

Poor or nonexistent stand of grass species. Resource concerns may include undesireable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Situation:

Suitable species are established to improve forage quality and quantity and reduce soil erosion on cropland ,hayland, pasture, and/or biomass production.

Scenario Feature Measure: Acres of Forgage and Biomass Planting

Scenario Unit: Acre

Scenario Typical Size: 30

Scenario Cost: \$2,553.42 Scenario Cost/Unit: \$85.11

Cost Details (by category): Price **Component Name Component Description** Unit **Quantity Cost** (\$/unit) Equipment/Installation Seeding Operation, No 960 No Till drill or grass drill for seeding. Includes equipment, Acre \$19.75 30 \$592.50 Till/Grass Drill power unit and labor costs. 30 Chemical, ground application 948 Chemical application performed by ground equipment. \$5.67 \$170.10 Acre Includes equipment, power unit and labor costs. 945 Includes light disking (tandem) or field cultivator. Includes \$10.31 30 \$309.30 Tillage, Light Acre equipment, power unit and labor costs. Labor Hour General Labor 231 Labor performed using basic tools such as power tool, \$18.46 \$147.68 shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. Materials Herbicide, Glyphosate 334 A broad-spectrum, non-selective systemic herbicide. Refer Acre \$15.83 30 \$474.90 to WIN-PST for product names and active ingredients. Includes materials and shipping only. Test, Soil Test, Standard 299 Includes materials, shiping, labor, and equipment costs. \$9.36 \$9.36 Each \$597.60 Four Species Mix, Cool Season, 2319 Cool season, introduced grass and legume mix. Includes Acre \$19.92 130 Introduced Perennial (2 material and shipping only. grasses, 2 legumes) Mobilization \$251.98 \$251.98 Mobilization, medium 1139 Equipment with 70-150 HP or typical weights between Each 1 equipment 14,000 and 30,000 pounds.

Practice: 512 - Forage and Biomass Planting
Scenario: #7 - Introduced Warm Season Grasses

Scenario Description:

Establish or reseed adapted introduced warm season grasses to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of perennial introduced warm season grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding, and spreading.

Before Situation:

Existing stand of perennial grasses or monoculture or no grasses present. Resource concerns may include undesireable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Situation:

Suitable species are established to improve forage quality and quantity and reduce soil erosionon cropland ,hayland, pasture, and/or biomass production.

Scenario Feature Measure: Acres of Forgage and Biomass Planting

Scenario Unit: Acre

Scenario Typical Size: 30

Scenario Cost: \$8,417.22 Scenario Cost/Unit: \$280.57

Cost Details (by category Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation				(3/unit)		
Tillage, Light	945	Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.31	30	\$309.30
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.67	30	\$170.10
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.28	30	\$188.40
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$19.75	30	\$592.50
Labor						
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$18.46	8	\$147.68
Materials						•
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.83	30	\$474.90
Phosphorus, P2O5	73	Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.34	1500	\$510.00
Potassium, K2O	74	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.30	1500	\$450.00
Test, Soil Test, Standard	299	Includes materials, shiping, labor, and equipment costs.	Each	\$9.36	1	\$9.36
One Species, Warm Season, Introduced Perennial Grass (seed or sprigs)	2323	Native, warm season perennial grass seed or sprig. Includes material and shipping only.	Acre	\$59.62	30	\$1,788.60
Lime, ENM	75	Fertilizer: Limestone Spread on field.	Ton	\$43.54	60	\$2,612.40
Nitrogen (N), Ammonium Nitrate	69	Price per pound of N supplied by Ammonium Nitrate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.76	1200	\$912.00

Mobilization

Mobilization

Mobilization, medium	1139 Equipment with 70-150 HP or typical weights between	Each	\$251.98	1	\$251.98
equipment	14,000 and 30,000 pounds.				

Scenario: #8 - Introduced Warm Season Grasses with Low Input

Scenario Description:

Establish or reseed adapted introduced warm season grasses to improve or maintain livestock/wildlife nutrition and health, extend the length of the grazing season, and provide soil cover to reduce erosion. Used for either conventional or no-till seeding of perennial introduced warm season grasses for pasture, hayland, and wildlife openings. This practice may be utilized for organic or regular production. This scenario assumes fertility and pH are not needed. Seed, equipment and labor for seed bed prep, tillage, seeding ,and spreading are included.

Before Situation:

Existing stand of perennial grasses or monoculture or no grasses present. Resource concerns may include undesireable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Situation:

Suitable species are established to improve forage quality and quantity and reduce soil erosionon cropland ,hayland, pasture, and/or biomass production.

Scenario Feature Measure: Acres of Forgage and Biomass Planting

Scenario Unit: Acre

Scenario Typical Size: 30

Scenario Cost: \$3,744.42 Scenario Cost/Unit: \$124.81

Cost Details (by category	·):			Price		
Component Name	ID	Component Description	Unit	(\$/unit)	Quantity	Cost
Equipment/Installation						
Seeding Operation, No Till/Grass Drill		No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$19.75	30	\$592.50
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.67	30	\$170.10
Tillage, Light		Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.31	30	\$309.30
Labor			•		•	•
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$18.46	8	\$147.68
Materials						
Test, Soil Test, Standard	299	Includes materials, shiping, labor, and equipment costs.	Each	\$9.36	1	\$9.36
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.83	30	\$474.90
One Species, Warm Season, Introduced Perennial Grass (seed or sprigs)	2323	Native, warm season perennial grass seed or sprig. Includes material and shipping only.	Acre	\$59.62	30	\$1,788.60
Mobilization						
Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$251.98	1	\$251.98

Scenario: #9 - Sprigging Scenario Description:

Sprigging new grasses with sprigging application for the purpose of providing forage, increasing plant diversity, soil quality and fertility, and plant health. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, sprigs, equipment and labor for seed bed prep, tillage, sprigging ,and spreading.

Before Situation:

Poor or nonexistent stand of grass species. Resource concerns may include undesireable plant productivity and health, inadequate feed and forage for livestock, soil erosion and soil quality.

After Situation:

Suitable species are established to improve forage quality and quantity and reduce soil erosion on cropland ,hayland, pasture, and/or biomass production.

Drico

Scenario Feature Measure: Acres of Forgage and Biomass Planting

Scenario Unit: Acre

Scenario Typical Size: 30

Scenario Cost: \$10,808.22 Scenario Cost/Unit: \$360.27

Cost Details (by category):

Component Name	ID .	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Tillage, Light		Includes light disking (tandem) or field cultivator. Includes equipment, power unit and labor costs.	Acre	\$10.31	30	\$309.30
Ground sprigging	1101	Includes costs for equipment, power unit and labor.	Acre	\$93.09	30	\$2,792.70
Fertilizer, ground application, dry bulk		Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.28	30	\$188.40
Chemical, ground application		Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.67	30	\$170.10
Labor						
General Labor		Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$18.46	8	\$147.68
Materials						1
Potassium, K2O		K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.30	1500	\$450.00
Nitrogen (N), Ammonium Nitrate		Price per pound of N supplied by Ammonium Nitrate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.76	1200	\$912.00
Phosphorus, P2O5		Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.34	1500	\$510.00
Lime, ENM	75	Fertilizer: Limestone Spread on field.	Ton	\$43.54	60	\$2,612.40
Test, Soil Test, Standard	299	Includes materials, shiping, labor, and equipment costs.	Each	\$9.36	1	\$9.36
Herbicide, Glyphosate		A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.83	30	\$474.90

Materials

One Species, Warm Season, Native Perennial Grass		Native, warm season perennial grass. Includes material and shipping only.	Acre	\$65.98	30	\$1,979.40
Mobilization						
Mobilization, medium	1139	Equipment with 70-150 HP or typical weights between	Each	\$251.98	1	\$251.98
equipment		14,000 and 30,000 pounds.				

Scenario: #10 - Overseeding Legumes

Scenario Description:

Establishment of legumes for the purpose of increasing plant diversity, soil quality and fertility, and plant health and enhancing the quality of forage. This practice may be utilized for organic or regular production. This scenario assumes fertilizer, seed, equipment and labor for seed bed prep, tillage, seeding, and spreading.

Before Situation:

Existing stand of perennial grasses or monoculture with no legumes present.

After Situation:

Legumes will be maintained through proper grazing management and improve plant diversity and soil quality.

Scenario Feature Measure: Acres of Forgage and Biomass Planting

Scenario Unit: Acre

Scenario Typical Size: 30

Scenario Cost: \$5,241.72 Scenario Cost/Unit: \$174.72

Cost Details (by category): Price **Component Name Component Description** Unit **Quantity Cost** (\$/unit) Equipment/Installation Seeding Operation, No 960 No Till drill or grass drill for seeding. Includes equipment, Acre \$19.75 30 \$592.50 Till/Grass Drill power unit and labor costs. Fertilizer, ground application, 950 Dry bulk fertilizer application performed by ground \$6.28 30 \$188.40 Acre equipment. Includes equipment, power unit and labor dry bulk costs. 948 Chemical application performed by ground equipment. \$5.67 30 \$170.10 Chemical, ground application Acre Includes equipment, power unit and labor costs. \$309.30 Tillage, Light 945 Includes light disking (tandem) or field cultivator. Includes Acre \$10.31 130 equipment, power unit and labor costs. Labor General Labor 231 Labor performed using basic tools such as power tool, Hour \$18.46 \$147.68 shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. Materials Test, Soil Test, Standard 299 Includes materials, shiping, labor, and equipment costs. Each \$9.36 \$9.36 \$43.54 60 \$2,612.40 Lime, ENM 75 Fertilizer: Limestone Spread on field. Ton 74 K2O supplied by Muriate Of Potash. Price is not per pound 1500 \$450.00 Potassium, K2O Pound \$0.30 of total product applied, no conversion is needed. \$510.00 Phosphorus, P205 73 Price per pound of P2O5 supplied by Superphosphate. Pound \$0.34 1500 Price is not per pound of total product applied, no conversion is needed. Mobilization Mobilization, medium 1139 Equipment with 70-150 HP or typical weights between Each \$251.98 1 \$251.98 equipment 14,000 and 30,000 pounds.